



- NEMA 4X
- UL® 50E Type 4 Enclosure
- UL®1449 Listed Edition 5.0
- UL®1283 Listed Edition 7.0
- Up to 57dB attenuation (1kHz-100MHz)
- Flashing Red Light: N-G fault.
- Type 2 SPD, 20kA I_n
- 160kA 8/20μs I_{max} surge rating per phase
- All modes protected
- Optional Recessed Mounting Trim Plate
- Prewired 18" leads for alarm contacts
- Audible Alarm (including phase loss)
- Ten Year Warranty

The **OMEGA POWER SF160** Surge Filter Series is an enhanced version of the SP160 Series. The SF160 Surge Filter is robust, with a 160 kA per phase surge rating. The high peak surge rating increases survivability and overall life. The addition of the noise filter, designed to remove high frequency transients and noise on the power distribution system, adds another level of protection for sensitive equipment.

The SF160 is **UL® 1283 Edition 7 and UL® 1449 Edition 5** Listed as an SPD for Type 2 locations. Applications include service entrance, distribution switchgear, branch panels, Motor Control Centers (MCC), lighting panels, HVAC, A/V Equipment, IT equipment, and much more. With a NEMA 4X enclosure rating, this product series is also well suited for outdoor applications. Engineered to provide durability and long life, even under the most adverse conditions.

| Model | Voltage |
|----------|-----------------|
| SF1601 | 120V 2w+G |
| SF1602 | 240V 2w+G |
| SF160S12 | S120/240V 3w+G |
| SF160Y12 | Y120/208V 4w+G |
| SF160Y24 | Y277/480V 4w+G |
| SF160D12 | D120/240V Delta |
| SF160D2 | D240V 3ph Delta |
| SF160D4 | D480V 3ph Delta |

UL 1283 Listed Edition 7.0
UL 1449 Listed Edition 5.0

SF160 SPECIFICATIONS COMMON TO ALL VOLTAGES

| | |
|----------------------------------|---|
| Max Discharge Current, I_{max} | 160kA 8/20 μ s per phase (I_{max}) |
| Nominal Discharge Current, I_n | 20kA 8/20 μ s / mode |
| Protection Modes | ALL MODES |
| Short Circuit Current Rating | 200kAIC |
| Status / Alarm | 1 Green LED status indication per phase / AUDIBLE ALARM |
| Dimensions | 202 x 78 x 70 mm, (6"front / 7.95"h x 3.06"d x 2.75"w inches) |
| Enclosure / Rating | Polycarbonate / NEMA 4X / UL 50E, Type 4 |
| Connection | 457 mm (18" of # 10 AWG) flying leads |
| Mounting | 3/4" straight nipple. |
| Approvals | UL® 1449 LISTED EDITION 5.0 (TYPE 2), CE, CSA, IEC 6143-1 |
| Noise Filter | UL® 1283 Listed Edition 7.0, up to -57 dB attenuation (10kHz to 100 MHz) |
| Complies With | ANSI/IEEE: C62.41.2 -2002, C62.41.1-2002, C62.45-2002 CAT A, CAT B, CAT C |
| Temperature | - 40 to 185 F |
| Unit Weight | 1.16 lb |
| Recessed Wall | Optional Flush Mounting Plate for Drywall |
| Warranty | 10 Years Limited Free Replacement |

SF160 SPECIFICATIONSSINGLE PHASE

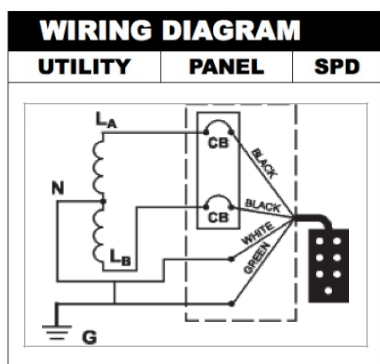
| Model | SF1601 | SF1602 | SF160S12 |
|-----------------------------------|--------------|-----------|------------------|
| Nominal System Voltage, U_n | 120V | 240V | 120/240 V |
| Distribution System | 1 phase 2W+G | 1 Ph 2W+G | Split phase 3W+G |
| MCOV | 180VAC | 350 VAC | 180/360 VAC |
| VPR Voltage Protection Rating L-N | L-N 700V | L-N 1200V | L-L 1200 V |
| VPR Voltage Protection Rating L-G | L-G 700V | L-G 1200V | L-N 700 V |
| VPR Voltage Protection Rating N-G | N-G 700V | N-G 1200V | L-G 700 V |

SF160 SPECIFICATIONS 3 MULTI-PHASE

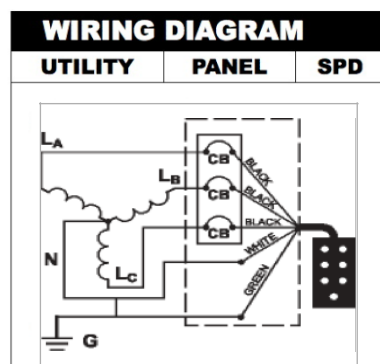
| Model | SF160S12 | SF160Y12 | SF160Y24 |
|-----------------------------------|------------------|-------------|-------------|
| Nominal System Voltage, Un | 120/240 V | 120/208 V | 277/480 V |
| Distribution System | Split phase 3W+G | 3 Ph Y 4W+G | 3 Ph Y 4W+G |
| MCOV | 180/360 VAC | 150/300 VAC | 350/700 VAC |
| VPR Voltage Protection Rating L-L | L-L 1200 V | L-L 1200 V | L-N 1200 V |
| VPR Voltage Protection Rating L-N | L-N 700 V | L-N 700 V | L-G 1200 V |
| VPR Voltage Protection Rating L-G | L-G 700 V | L-G 700 V | N-G 1200 V |

SF160 SPECIFICATIONS 3 PHASE DELTA

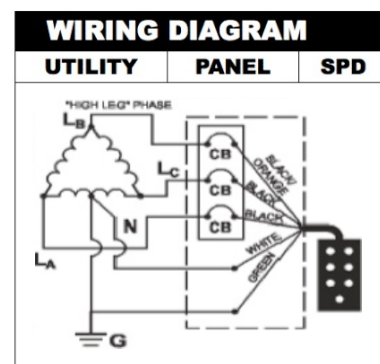
| Model | SF160D2 | SF160D12 | SF160D4 |
|-----------------------------------|-------------------|----------------------|-----------------|
| Nominal System Voltage, Un | 240 V | 120/240V hileg delta | 480 V |
| Distribution System | 3 Ph Delta, 3W +G | 3 phase 4W+G | 3 Ph Delta 3W+G |
| MCOV | 275 VAC | 350/700 VAC | 550 VAC |
| VPR Voltage Protection Rating L-N | L-L 1800 V | L-N 1200 V / 1500 V | L-L 4000 V |
| VPR Voltage Protection Rating L-G | L-G 1000 V | L-G 800V / 900 V | L-G 1800 V |
| VPR Voltage Protection Rating N-G | | N-G 700 V | |



S120/240V 3w+G



Y120/208V 4w+G



D120/240V hileg 4w+G